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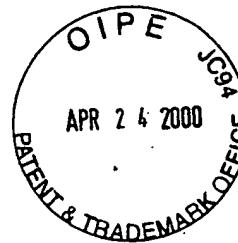
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Assistant Commissioner for Patents
Washington, D.C. 20231

Re: U.S. Patent Application No.: 09/445,289
BACTERIAL PHEROMONES AND USES THEREFOR
Inventor: Mukamolova, G. V. et al.
Filed: December 3, 1999
Our Ref. No.: FHW-051US



Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Information Disclosure Statement;
2. PTO Form 1449;
3. Full copies of references cited in PTO Form 1449;
4. A copy of the International Search Report issued in international application number PCT/GB98/10619, filed June 3, 1998; and
5. A Return Postcard.

No additional costs are believed to be due in connection with the filing of this Information Disclosure Statement. However, please charge any necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a duplicate of this sheet is attached.

I hereby certify that this correspondence is deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on:

April 20, 2000

Date

Peter C. Lauro, Esq., Reg. No. 32,360

Respectfully submitted,
LAHIVE & COCKFIELD, LLP

Peter C. Lauro, Esq.
Registration No. 32,360
Attorney for Applicants

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Mukamolova, G. V. *et al.*

Serial No.: 09/445,289

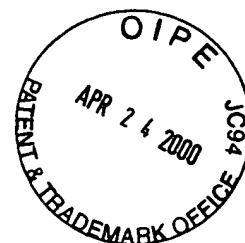
Filed: December 3, 1999

For: *BACTERIAL PHEROMONES AND USES THEREFOR*

Attorney Docket No.: FHW-051US

Group Art Unit:

Examiner:



Assistant Commissioner for Patents
Washington, D.C. 20231

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Date of Signature and of Mail Deposit



Peter C. Lauro
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INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants and their attorney are aware of the following publications and information, listed on the attached PTO Form 1449, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration. A full copy of each cited publication is enclosed. Applicants invite the Examiner's attention to the fact that references A-2, A-4, A-5, A-6, A-8, A-9, A-10, A-12, A-15, B-1 and B-2 were cited in the International Search Report issued in international application number PCT/GB98/01619, filed June 3, 1998, which corresponds to the above-identified application. A copy of the International Search Report is also enclosed.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited publications.

Under 37 CFR § 1.97(b)(3), no additional costs are believed to be due in connection with the filing of this disclosure. If, however, a first Office Action on the merits issues in this application bearing a mailing date prior to the date of this Information Disclosure Statement, please charge the appropriate fee as required under 37 CFR §1.17(p) to our Deposit Order Account No. 12-0080.

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Enclosures

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO FHW-051US	SERIAL NO. 09/445,289
LIST OF PUBLICATIONS CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		APPLICANT Mukamolova, G. V. et al.		FILING DATE December 3, 1999	GROUP

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
A1	5,565,323	10/96	Parker et al.	435	6	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

A2	Badcock, K. et al., "Hypothetical 17.7 KD protein," TRPRO Database entry 033049, Jan. 1, 1998, Accession Number 033049
A3	Cole, S. T. et al. "Deciphering the biology of <i>Mycobacterium tuberculosis</i> from the complete genome sequence," <i>Nature</i> 393(6685):537-44 (1998)
A4	Cole, S. T. et al., "Hypothetical 15.7 KD protein," TRPRO Database entry P71755, Feb. 1, 1997, Accession Number P71755
A5	Cole S. T. et al., "Hypothetical 18.8 KD protein," TRPRO Database entry 007747, July 1, 1997, Accession Number 007747
A6	Cole, S. T. et al. "Hypothetical 38.1 KD protein," TRPRO Database entry 005594, July 1, 1997, Accession Number 005594
A7	Eiglmeier, K. et al. "Use of an ordered cosmid library to deduce the genomic organization of <i>Mycobacterium leprae</i> ," <i>Mol. Microbiol.</i> 7(2):197-206 (1993)
A8	Kaprelyants, Arseny S., and Kell, Douglas B. et al., "Do bacteria need to communicate with each other for growth?" <i>Trends in Microbiology</i> 4(6):237-42 (1996)
A9	Kaprelyants, Arseny S. et al., "Estimation of dormant <i>Micrococcus luteus</i> cells by penicillin lysis and by resuscitation in cell-free spent culture medium at high dilution," <i>FEMS Microbiology Letters</i> 115(2-3):347-52 (1994)
A10	Kunst, F. et al., "Cell wall-binding protein homolog yocH-Bacillus subtilis" PIR Database entry E69901, Dec. 5, 1997, Accession Number E69901
A11	Kunst, F. et al. "The complete genome sequence of the Gram-positive bacterium <i>Bacillus subtilis</i> ," <i>Nature</i> 390:249-56 (1997)
A12	Lyristis, M. et al., "Hypothetical protein 1-Clostridium perfringens (fragment)," PIR Database entry S49552, Nov. 29, 1995, Accession Number S49552
A13	Lyristis, Michael et al. "Identification and molecular analysis of a locus that regulates extracellular toxin production in <i>Clostridium perfringens</i> ," <i>Mol. Microbiol.</i> 12(5):761-77 (1994)
A14	Mukamolova, Galina V. et al., "A bacterial cytokine," <i>Proc. Natl. Acad. Sci. USA</i> 95(15):8916-21 (1998)
A15	Ogasawara, N. et al., "Hypothetical 47.7 KD protein in meta-ksga intergenic region," SWISSPROT Database entry Yabe-Bacsu, Oct. 1, 1994, Accession Number P37546
A16	Ogasawara, Naotake et al. "Systemic Sequencing of the 180 Kilobase Region of the <i>Bacillus Subtilis</i> Chromosome containing the replication Origin," <i>DNA Research</i> 1:1-14 (1994)

Examiner	Date Considered
*EXAMINER:	Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

APPLICANT FACSIMILE OF FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE	ATTY DOCKET NO	SERIAL NO.
REV 7-80		PATENT AND TRADEMARK OFFICE	FHW-051US	09/445,289
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Mukamolova, G. V. et al. FILING DATE December 3, 1999		

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FOREIGN PATENT DOCUMENTS

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

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